

Amendments to the Abstract:

ABSTRACT

Please replace the abstract that appears on page 12 of the specification with the following revised abstract which is submitted on a separate sheet.

ABSTRACT

~~The invention relates to a~~ A sonic or ultrasonic transducer [(1)], which is embodied as a radial oscillator. So that the sonic or ultrasonic transducer can be used at high temperatures, ~~[[the]]~~ a matching layer [(4)] is located between the radial oscillator and the atmosphere into which the ultrasonic signals are transmitted[[,]] ~~and~~ The matching layer is made from a material that has a dimensional stability up to a temperature which lies above the temperature at the installation location of the sonic or ultrasonic transducer [(1)]. Furthermore, the matching layer is selected such that its material-specific coefficient of thermal expansion is greater than that of the materials of ~~[[the]]~~ a piezoelectric unit [(2)] and ~~[[the]]~~ a coupling ring [(3)], and that the modulus of elasticity of the material of the matching layer [(4)] is at least one order of magnitude smaller than that of the piezoelectric unit [(2)] and/or the coupling ring [(3)].